

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
13 May 2004 (13.05.2004)

PCT

(10) International Publication Number
WO 2004/040523 A2

(51) International Patent Classification⁷: **G07B 17/00**

(21) International Application Number:
PCT/IT2003/000703

(22) International Filing Date: 30 October 2003 (30.10.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
TO 2002 A 000939 30 October 2002 (30.10.2002) IT

(71) Applicant (*for all designated States except US*): **OLIVETTI TECNOST S.P.A. [IT/IT]**; Via G. Jervis, 77, I-10015 Ivrea (IT).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **TONINO, Giancarlo [IT/IT]**; c/o Olivetti Tecnost S.P.A., Via G. Jervis, 77, I-10015 Ivrea (TO) (IT). **DI BENEDETTO, Pier, Domenico [IT/IT]**; C/O Olivetti Tecnost S.P.A., Via G. Jervis, 77, I-10015 Ivrea (TO) (IT).

Jervis, 77, I-10015 Ivrea (TO) (IT). **QUARANTI, Giovanni [IT/IT]**; Via Castellamonte, 12/1, I-10010 Banchette (TO) (IT).

(81) Designated States (*national*): AU, BR, CA, CN, HU, IL, IN, JP, KR, MX, RU, SG, TR, US, YU, ZA.

(84) Designated States (*regional*): European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR).

Declarations under Rule 4.17:

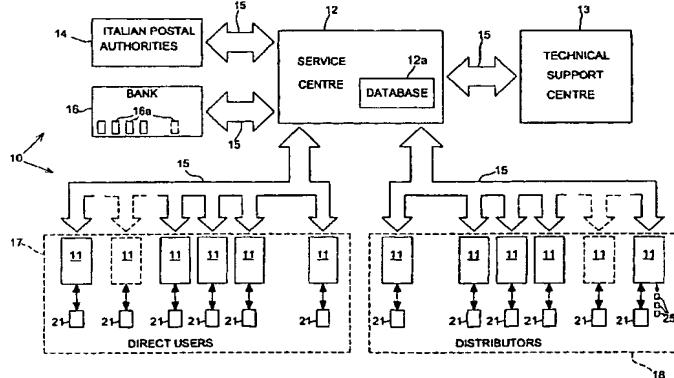
- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AU, BR, CA, CN, HU, IL, IN, JP, KR, MX, RU, SG, TR, YU, ZA, European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR)*
- *of inventorship (Rule 4.17(iv)) for US only*

Published:

- *without international search report and to be republished upon receipt of that report*

[Continued on next page]

(54) Title: DISTRIBUTED SYSTEM FOR ISSUING OFFICIAL STAMPS AND/OR TITLES COMPRISING A PLURALITY OF SMART CARDS



(57) Abstract: A distributed system (10) for issuing official stamps and/or titles (25), particularly stamps, comprising a central control unit or Service Centre (12), a plurality of local terminals (11) distributed throughout the land for materially issuing the official stamps and/or titles (25), and a plurality of smart cards (21) assigned to the operators of the local terminals (11), in which an initialisation programme (40) is provided for initialising, in combination, a given local terminal (11) and a given smart card (21) of the system (10), in order to establish between that given terminal (11) and that given smart card (21) a bi-unequivocal type relationship of correspondence and cooperation, so that the given local terminal (11) and the given smart card (21), once initialised, are enabled within the system (10) to cooperate uniquely between one another to the exclusion of all other terminals and all other smart cards. In particular, this bi-unequivocal correspondence is set up by the initialisation programme (40) by "signing" or encrypting, through a secret key (35a) of the smart card (21), a data string (24a, 24b) defined by the target terminal (11) with which the smart card (21) is intended to exclusively cooperate.

WO 2004/040523 A2